

INTERNATIONAL SEARCH REPORT

Inter

Application No

PCT/EP2004/014078

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01S3/115

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, IBM-TDB, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 848 080 A (DAHME ET AL) 8 December 1998 (1998-12-08)	1
Y	abstract; claim 1; figures 1,4-15 column 1, lines 5-21 column 3, lines 10-16 column 4, line 6 - column 6, line 12	2-12
X	US 5 870 421 A (DAHME ET AL) 9 February 1999 (1999-02-09)	1
Y	abstract; claim 1; figures 1,4-15,19,20	2-12
X	EP 0 949 730 A (JMAR TECHNOLOGY COMPANY) 13 October 1999 (1999-10-13)	1
Y	abstract; claims 11,17-21,23; figures 1-3,7 paragraphs '0007!, '0010! - '0020!, '0026!, '0027!, '0032! ----- -/--	2-12

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

28 January 2005

Date of mailing of the international search report

08/02/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Gnugesser, H

INTERNATIONAL SEARCH REPORT

Inter

Application No

PCT/EP2004/014078

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	RAYBAUT P ET AL: "Diode-pumped 100-fs lasers based on a new apatite-structure crystal : Yb<3+>:SrY4(SiO4)30" LASERS AND ELECTRO-OPTICS EUROPE, 2003. CLEO/EUROPE. 2003 CONFERENCE ON MUNICH, GERMANY 22-27 JUNE 2003, PISCATAWAY, NJ, USA, IEEE, 22 June 2003 (2003-06-22), pages 423-423, XP010711980 ISBN: 0-7803-7734-6 the whole document	1
X	GLOSTER L A W ET AL: "Diode-pumped Q-switched Yb:S-FAP laser" OPTICS COMMUNICATIONS, NORTH-HOLLAND PUBLISHING CO. AMSTERDAM, NL, vol. 146, no. 1-6, 15 January 1998 (1998-01-15), pages 177-180, XP004119416 ISSN: 0030-4018 the whole document	1
A	US 4 896 119 A (WILLIAMSON ET AL) 23 January 1990 (1990-01-23) abstract; figures 1,2	1

INTERNATIONAL SEARCH REPORT

Inter Application No
PCT/EP2004/014078

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5848080	A	08-12-1998	AU 7379398 A	08-12-1998
			AU 7379498 A	08-12-1998
			WO 9852257 A1	19-11-1998
			WO 9852258 A1	19-11-1998
US 5870421	A	09-02-1999	AU 7379398 A	08-12-1998
			AU 7379498 A	08-12-1998
			WO 9852257 A1	19-11-1998
			WO 9852258 A1	19-11-1998
EP 0949730	A	13-10-1999	US 6016324 A	18-01-2000
			EP 0949730 A2	13-10-1999
			JP 11330597 A	30-11-1999
			SG 75166 A1	19-09-2000
US 4896119	A	23-01-1990	NONE	